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<141> 2001-12-20

<150> PCT/US01/20917

<151> 2001-06-29

<150> 60/215,135

<151> 2000-06-30

<150> 60/225,266

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<170> PatentIn Ver. 2.0

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<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<400> 6

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 <212> DNA  
 <213> Homo sapiens

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<222> (1549)  
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<400> 13	
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gtaagtggga ggcaaagaaa attcttttc tcctcttttgg ggcacagttt tgacttagtaa	120
tgcctgtgcc cctggaaagg ttggagactt gggggacgac tggagaattt ccatttgagg	180
acccaaaggag aaaagaaact acacgctaatt tctagaaggc ctccctgtccc tgcctgtct	240

gggtgctcat	ggaaccagct	gctgccctgc	acttctcccg	gccagcctcc	ctcctcctcc	300
tcctcagcct	gtgtgcactg	gtctcagccc	agtttactgt	cgtggggcca	gctaatccca	360
tcctggccat	ggtggggagaa	aacactacat	tacgctgccca	tctgtcaccc	gagaaaaatg	420
ctgaggacat	ggaggtgcgg	tggttccgg	ctcagttctc	ccccgcagtg	tttgtgtata	480
agggtgggag	agagagaaca	gaggagcaga	tggaggagta	ccgggaaaga	atcaccttg	540
tgagcaaaga	catcaacagg	ggcagcgtgg	ccctggtcat	acataacgtc	acagcccagg	600
agaatgggat	ctaccgctgt	tacttccaag	aaggcagggtc	ctacgatgag	gccatcctac	660
gcctcgtggt	ggcaggcctt	gggtctaagc	ccctcattga	aatcaaggcc	caagaggatg	720
ggagcatctg	gctggagtgc	atatctggag	ggtggtaccc	agagcccctc	acagtgtgga	780
gggaccccta	cggtgagggt	gtgcccggcc	tgaaggaggt	ttccatcgct	gatgctgacg	840
gcctcttcat	ggtcaccaca	gctgtgatca	tcagagacaa	gtatgtgagg	aatgtgtcct	900
gctctgtcaa	caacaccctg	ctcggccagg	agaaggaaac	tgtcattttt	attccagaat	960
cctttatgcc	cagcgcac	ccctggatgg	tggccctagc	tgtcatcctg	accgcacatctc	1020
cctggatgg	gtccatgact	gtcatcctgg	ctgtttcat	catcttcatg	gctgtcagca	1080
tctgttgc	caagaaactt	caaaggaaa	aaaagattt	gtcaggggaa	aagaaagttg	1140
aacaagagga	aaaagaaaatt	gcacagcaac	ttcaagaaga	attgcgatgg	agaagaacat	1200
tcttacatgc	tgctgatgt	gtcctggatc	cagacacccgc	tcatcccgag	ctcttcgt	1260
cagaggaccg	gagaagtgt	aggcggggcc	cctacaggca	gagagtgcct	gacaacccag	1320
agagattcga	cagtcagcct	tgtgtcctgg	gatggggagag	cttcgcctca	gggaaacatt	1380
acaggggaaa	cttcacagag	tggggaccca	ccagagccta	tagaatcaat	tccttgact	1440
cacagccatg	cagataagcc	ctggccatct	cagcagccac	cgcacaaccc	ccctaata	1500
agacacgccc	tcctcccctc	tggtcacgta	agagaacatc	ttccagctgc	cttttcaca	1560
cccactccag	ccctctgccc	cagtttctc	ctcctcacta	gtctgtggct	ttagtagttc	1620
ctttgcttgt	aattatggga	tgggatccag	gcatagggaa	ctagttgtt	catacgctcc	1680
agtcaaaaag	aaagttagag	aagctttgg	gcagcgaacc	tactgtttaa	aatcaggata	1740
accacattaa	gcccaatatg	ccagttggca	ccagatgctg	tggacttgg	atgaggccaa	1800
cagggttcac	caggatgaga	gaggagagag	gaatccacag	gaccaccaga	agggagaggg	1860
aaccagat	gcagatcaga	gatagagaa	gtgttgagag	gaaaggggag	gtcctgctga	1920
ttcctcagaa	tggcttctgg	accctggaga	tgtttggaaa	ccaataccgg	gccctgtcct	1980
cccctgagag	gattctccct	ttgaaggagt	ccctttgccc	ggtgggcgtc	ttcctggact	2040
atgaagctgg	agatgtctcc	ttctacaaca	tgagggacag	atcacacatc	tacacatgtc	2100
cccggttcagc	ctttactgt	cctgtgaggc	ccttcttcag	gttagggtct	gatgacagcc	2160
ccatcttcat	ctgcccgtca	ctcacaggag	ccagtgggt	catgtgcct	gaagagggcc	2220
tgaaacttca	cagagtgggg	acccaccaag	gttgcataagg	atggctaagt	cccaccataa	2280
gagctaaagg	gtcctgggg	atgatgctc	atttccaccc	aacccacca	tttccacacg	2340
acacacccac	aggcctggac	ctgggatgaa	gatgaatgaa	gaacatggac	tcatgtggat	2400
gtggtttggc	tcagatgtcc	ctgcaataaa	caaggggtca	gtacttagtc	cctgagtgt	2460
gttgaggtt	gaggccttgg	tcgagcaggg	cagtactgga	ccaggtctac	gtcagcattc	2520
aggttcaatg	ggggacacca	gtggctcaa	acttcctgat	ctaattatgt	tttttagacac	2580
ttagaaagtt	ttgaggactt	taaagaactt	ttgtttattt	gggttaat	ttatgacatt	2640
tgaccatttg	aacaaaaatt	taaaatgtt	tcttttaatt	tatgttaaaa	tagcattaat	2700
aaatcgtt	taggttaatg	tagataggat	gttttgtgaa	aaagcaatct	attgtgtcca	2760
aataaaaaaa	caaaaagtgt	aaaaaaaaaa	aaaaaaaaaa			2799

<210> 14  
 <211> 282  
 <212> PRT  
 <213> Homo sapiens

<400> 14  
 Met Ala Ser Leu Gly Gln Ile Leu Phe Trp Ser Ile Ile Ser Ile Ile  
 1 5 10 15

Ile Ile Leu Ala Gly Ala Ile Ala Leu Ile Ile Gly Phe Gly Ile Ser  
 20 25 30

Gly Arg His Ser Ile Thr Val Thr Val Ala Ser Ala Gly Asn Ile  
 35 40 45

Gly Glu Asp Gly Ile Leu Ser Cys Thr Phe Glu Pro Asp Ile Lys Leu  
 50 55 60

Ser Asp Ile Val Ile Gln Trp Leu Lys Glu Gly Val Leu Gly Leu Val  
 65 70 75 80

His Glu Phe Lys Glu Gly Lys Asp Glu Leu Ser Glu Gln Asp Glu Met  
 85 90 95

Phe Arg Gly Arg Thr Ala Val Phe Ala Asp Gln Val Ile Val Gly Asn  
 100 105 110

Ala Ser Leu Arg Leu Lys Asn Val Gln Leu Thr Asp Ala Gly Thr Tyr  
 115 120 125

Lys Cys Tyr Ile Ile Thr Ser Lys Gly Lys Gly Asn Ala Asn Leu Glu  
 130 135 140

Tyr Lys Thr Gly Ala Phe Ser Met Pro Glu Val Asn Val Asp Tyr Asn  
 145 150 155 160

Ala Ser Ser Glu Thr Leu Arg Cys Glu Ala Pro Arg Trp Phe Pro Gln  
 165 170 175

Pro Thr Val Val Trp Ala Ser Gln Val Asp Gln Gly Ala Asn Phe Ser  
 180 185 190

Glu Val Ser Asn Thr Ser Phe Glu Leu Asn Ser Glu Asn Val Thr Met  
 195 200 205

Lys Val Val Ser Val Leu Tyr Asn Val Thr Ile Asn Asn Thr Tyr Ser  
 210 215 220

Cys Met Ile Glu Asn Asp Ile Ala Lys Ala Thr Gly Asp Ile Lys Val  
 225 230 235 240

Thr Glu Ser Glu Ile Lys Arg Arg Ser His Leu Gln Leu Leu Asn Ser  
 245 250 255

Lys Ala Ser Leu Cys Val Ser Ser Phe Phe Ala Ile Ser Trp Ala Leu  
 260 265 270

Leu Pro Leu Ser Pro Tyr Leu Met Leu Lys  
 275 280

<210> 15  
 <211> 283  
 <212> PRT  
 <213> Homo sapiens

<400> 15  
 Met Ile Phe Leu Leu Leu Met Leu Ser Leu Glu Leu Gln Leu His Gln  
 1 5 10 15

Ile Ala Ala Leu Phe Thr Val Thr Val Pro Lys Glu Leu Tyr Ile Ile  
 20 25 30

Glu His Gly Ser Asn Val Thr Leu Glu Cys Asn Phe Asp Thr Gly Ser  
 35 40 45  
 His Val Asn Leu Gly Ala Ile Thr Ala Ser Leu Gln Lys Val Glu Asn  
 50 55 60  
 Asp Thr Ser Pro His Arg Glu Arg Ala Thr Leu Leu Glu Glu Gln Leu  
 65 70 75 80  
 Pro Leu Gly Lys Ala Ser Phe His Ile Pro Gln Val Gln Val Arg Asp  
 85 90 95  
 Glu Gly Gln Tyr Gln Cys Ile Ile Tyr Gly Val Ala Trp Asp Tyr  
 100 105 110  
 Lys Tyr Leu Thr Leu Lys Val Lys Ala Ser Tyr Arg Lys Ile Asn Thr  
 115 120 125  
 His Ile Leu Lys Val Pro Glu Thr Asp Glu Val Glu Leu Thr Cys Gln  
 130 135 140  
 Ala Thr Gly Tyr Pro Leu Ala Glu Val Ser Trp Pro Asn Val Ser Val  
 145 150 155 160  
 Pro Ala Asn Thr Ser His Ser Arg Thr Pro Glu Gly Leu Tyr Gln Val  
 165 170 175  
 Thr Ser Val Leu Arg Leu Lys Pro Pro Pro Gly Arg Asn Phe Ser Cys  
 180 185 190  
 Val Phe Trp Asn Thr His Val Arg Glu Leu Thr Leu Ala Ser Ile Asp  
 195 200 205  
 Leu Gln Ser Gln Met Glu Pro Arg Thr His Pro Thr Trp Leu Leu His  
 210 215 220  
 Ile Phe Ile Pro Ser Cys Ile Ile Ala Phe Ile Phe Ile Ala Thr Val  
 225 230 235 240  
 Ile Ala Leu Arg Lys Gln Leu Cys Gln Lys Leu Tyr Ser Ser Lys Asp  
 245 250 255  
 Thr Thr Lys Arg Pro Val Thr Thr Lys Arg Glu Val Asn Ser Ala  
 260 265 270  
 Val Asn Leu Asn Leu Trp Ser Trp Glu Pro Gly  
 275 280

<210> 16  
 <211> 318  
 <212> PRT  
 <213> Homo sapiens

<400> 16  
 Met Ala Leu Met Leu Ser Leu Val Leu Ser Leu Leu Lys Leu Gly Ser  
 1 5 10 15  
 Gly Gln Trp Gln Val Phe Gly Pro Asp Lys Pro Val Gln Ala Leu Val

20	25	30
Gly Glu Asp Ala Ala Phe Ser Cys Phe Leu Ser Pro Lys Thr Asn Ala		
35	40	45
Glu Ala Met Glu Val Arg Phe Phe Arg Gly Gln Phe Ser Ser Val Val		
50	55	60
His Leu Tyr Arg Asp Gly Lys Asp Gln Pro Phe Met Gln Met Pro Gln		
65	70	75
Tyr Gln Gly Arg Thr Lys Leu Val Lys Asp Ser Ile Ala Glu Gly Arg		
85	90	95
Ile Ser Leu Arg Leu Glu Asn Ile Thr Val Leu Asp Ala Gly Leu Tyr		
100	105	110
Gly Cys Arg Ile Ser Ser Gln Ser Tyr Tyr Gln Lys Ala Ile Trp Glu		
115	120	125
Leu Gln Val Ser Ala Leu Gly Ser Val Pro Leu Ile Ser Ile Ala Gly		
130	135	140
Tyr Val Asp Arg Asp Ile Gln Leu Leu Cys Gln Ser Ser Gly Trp Phe		
145	150	155
160		
Pro Arg Pro Thr Ala Lys Trp Lys Gly Pro Gln Gly Gln Asp Leu Ser		
165	170	175
Thr Asp Ser Arg Thr Asn Arg Asp Met His Gly Leu Phe Asp Val Glu		
180	185	190
Ile Ser Leu Thr Val Gln Glu Asn Ala Gly Ser Ile Ser Cys Ser Met		
195	200	205
Arg His Ala His Leu Ser Arg Glu Val Glu Ser Arg Val Gln Ile Gly		
210	215	220
Asp Trp Arg Arg Lys His Gly Gln Ala Gly Lys Arg Lys Tyr Ser Ser		
225	230	235
240		
Ser His Ile Tyr Asp Ser Phe Pro Ser Leu Ser Phe Met Asp Phe Tyr		
245	250	255
Ile Leu Arg Pro Val Gly Pro Cys Arg Ala Lys Leu Val Met Gly Thr		
260	265	270
Leu Lys Leu Gln Ile Leu Gly Glu Val His Phe Val Glu Lys Pro His		
275	280	285
Ser Leu Leu Gln Ile Ser Gly Gly Ser Thr Thr Leu Lys Lys Gly Pro		
290	295	300
Asn Pro Trp Ser Phe Pro Ser Pro Cys Ala Leu Phe Pro Thr		
305	310	315

<210> 17  
<211> 454

<212> PRT

<213> Homo sapiens

<400> 17

Met Glu Pro Ala Ala Ala Leu His Phe Ser Arg Pro Ala Ser Leu Leu  
1 5 10 15

Leu Leu Leu Ser Leu Cys Ala Leu Val Ser Ala Gln Phe Thr Val Val  
20 25 30

Gly Pro Ala Asn Pro Ile Leu Ala Met Val Gly Glu Asn Thr Thr Leu  
35 40 45

Arg Cys His Leu Ser Pro Glu Lys Asn Ala Glu Asp Met Glu Val Arg  
50 55 60

Trp Phe Arg Ser Gln Phe Ser Pro Ala Val Phe Val Tyr Lys Gly Gly  
65 70 75 80

Arg Glu Arg Thr Glu Glu Gln Met Glu Glu Tyr Arg Gly Arg Ile Thr  
85 90 95

Phe Val Ser Lys Asp Ile Asn Arg Gly Ser Val Ala Leu Val Ile His  
100 105 110

Asn Val Thr Ala Gln Glu Asn Gly Ile Tyr Arg Cys Tyr Phe Gln Glu  
115 120 125

Gly Arg Ser Tyr Asp Glu Ala Ile Leu Arg Leu Val Val Ala Gly Leu  
130 135 140

Gly Ser Lys Pro Leu Ile Glu Ile Lys Ala Gln Glu Asp Gly Ser Ile  
145 150 155 160

Trp Leu Glu Cys Ile Ser Gly Gly Trp Tyr Pro Glu Pro Leu Thr Val  
165 170 175

Trp Arg Asp Pro Tyr Gly Glu Val Val Pro Ala Leu Lys Glu Val Ser  
180 185 190

Ile Ala Asp Ala Asp Gly Leu Phe Met Val Thr Thr Ala Val Ile Ile  
195 200 205

Arg Asp Lys Tyr Val Arg Asn Val Ser Cys Ser Val Asn Asn Thr Leu  
210 215 220

Leu Gly Gln Glu Lys Glu Thr Val Ile Phe Ile Pro Glu Ser Phe Met  
225 230 235 240

Pro Ser Ala Ser Pro Trp Met Val Ala Leu Ala Val Ile Leu Thr Ala  
245 250 255

Ser Pro Trp Met Val Ser Met Thr Val Ile Leu Ala Val Phe Ile Ile  
260 265 270

Phe Met Ala Val Ser Ile Cys Cys Ile Lys Lys Leu Gln Arg Glu Lys  
275 280 285

Lys Ile Leu Ser Gly Glu Lys Lys Val Glu Gln Glu Glu Lys Glu Ile  
 290 295 300  
 Ala Gln Gln Leu Gln Glu Glu Leu Arg Trp Arg Arg Thr Phe Leu His  
 305 310 315 320  
 Ala Ala Asp Val Val Leu Asp Pro Asp Thr Ala His Pro Glu Leu Phe  
 325 330 335  
 Leu Ser Glu Asp Arg Arg Ser Val Arg Arg Gly Pro Tyr Arg Gln Arg  
 340 345 350  
 Val Pro Asp Asn Pro Glu Arg Phe Asp Ser Gln Pro Cys Val Leu Gly  
 355 360 365  
 Trp Glu Ser Phe Ala Ser Gly Lys His Tyr Arg Gly Asn Phe Thr Glu  
 370 375 380  
 Trp Gly Pro Thr Arg Ala Tyr Arg Ile Asn Ser Leu Asp Ser Gln Pro  
 385 390 395 400  
 Cys Arg Lys Pro Trp Pro Ser Gln Gln Pro Pro His Asn Pro Pro Asn  
 405 410 415  
 Glu Arg His Ala Leu Leu Pro Ser Gly His Val Arg Glu His Leu Pro  
 420 425 430  
 Ala Ala Phe Phe Thr Pro Thr Pro Ala Leu Cys Pro Ser Phe Leu Leu  
 435 440 445  
 Leu Thr Ser Leu Trp Leu  
 450

<210> 18  
 <211> 414  
 <212> PRT  
 <213> Homo sapiens

<400> 18  
 Met Arg Glu Ile Val Trp Tyr Arg Val Thr Asp Gly Gly Thr Ile Lys  
 1 5 10 15  
 Gln Lys Ile Phe Thr Phe Asp Ala Met Phe Ser Thr Asn Tyr Ser His  
 20 25 30  
 Met Glu Asn Tyr Arg Lys Arg Glu Asp Leu Val Tyr Gln Ser Thr Val  
 35 40 45  
 Arg Leu Pro Glu Val Arg Ile Ser Asp Asn Gly Pro Tyr Glu Cys His  
 50 55 60  
 Val Gly Ile Tyr Asp Arg Ala Thr Arg Glu Lys Val Val Leu Ala Ser  
 65 70 75 80  
 Gly Asn Ile Phe Leu Asn Val Met Ala Pro Pro Thr Ser Ile Glu Val  
 85 90 95

Val Ala Ala Asp Thr Pro Ala Pro Phe Ser Arg Tyr Gln Ala Gln Asn  
100 105 110

Phe Thr Leu Val Cys Ile Val Ser Gly Gly Lys Pro Ala Pro Met Val  
115 120 125

Tyr Phe Lys Arg Asp Gly Glu Pro Ile Asp Ala Val Pro Leu Ser Glu  
130 135 140

Pro Pro Ala Ala Ser Ser Gly Pro Leu Gln Asp Ser Arg Pro Phe Arg  
145 150 155 160

Ser Leu Leu His Arg Asp Leu Asp Asp Thr Lys Met Gln Lys Ser Leu  
165 170 175

Ser Leu Leu Asp Ala Glu Asn Arg Gly Gly Arg Pro Tyr Thr Glu Arg  
180 185 190

Pro Ser Arg Gly Leu Thr Pro Asp Pro Asn Ile Leu Leu Gln Pro Thr  
195 200 205

Thr Glu Asn Ile Pro Glu Thr Val Val Ser Arg Glu Phe Pro Arg Trp  
210 215 220

Val His Ser Ala Glu Pro Thr Tyr Phe Leu Arg His Ser Arg Thr Pro  
225 230 235 240

Ser Ser Asp Gly Thr Val Glu Val Arg Ala Leu Leu Thr Trp Thr Leu  
245 250 255

Asn Pro Gln Ile Asp Asn Glu Ala Leu Phe Ser Cys Glu Val Lys His  
260 265 270

Pro Ala Leu Ser Met Pro Met Gln Ala Glu Val Thr Leu Val Ala Pro  
275 280 285

Lys Gly Pro Lys Ile Val Met Thr Pro Ser Arg Ala Arg Val Gly Asp  
290 295 300

Thr Val Arg Ile Leu Val His Gly Phe Gln Asn Glu Val Phe Pro Glu  
305 310 315 320

Pro Met Phe Thr Trp Thr Arg Val Gly Ser Arg Leu Leu Asp Gly Ser  
325 330 335

Ala Glu Phe Asp Gly Lys Glu Leu Val Leu Glu Arg Val Pro Ala Glu  
340 345 350

Leu Asn Gly Ser Met Tyr Arg Cys Thr Ala Gln Asn Pro Leu Gly Ser  
355 360 365

Thr Asp Thr His Thr Arg Leu Ile Val Phe Glu Asn Pro Asn Ile Pro  
370 375 380

Arg Gly Thr Glu Asp Ser Asn Gly Ser Ile Gly Pro Thr Gly Ala Arg  
385 390 395 400

Leu Thr Leu Val Leu Ala Leu Thr Val Ile Leu Glu Leu Thr  
405 410

<210> 19  
 <211> 159  
 <212> PRT  
 <213> Homo sapiens

<400> 19  
 Met Glu Pro Ala Ala Ala Leu His Phe Ser Arg Pro Ala Ser Leu Leu  
 1 5 10 15

Leu Leu Leu Ser Leu Cys Ala Leu Val Ser Ala Gln Val Thr Val Val  
 20 25 30

Gly Pro Thr Asp Pro Ile Leu Ala Met Val Gly Glu Asn Thr Thr Leu  
 35 40 45

Arg Cys Cys Leu Ser Pro Glu Glu Asn Ala Glu Asp Met Glu Val Arg  
 50 55 60

Trp Phe Gln Ser Gln Phe Ser Pro Ala Val Phe Val Tyr Lys Gly Gly  
 65 70 75 80

Arg Glu Arg Thr Glu Glu Gln Lys Glu Glu Tyr Arg Gly Arg Thr Thr  
 85 90 95

Phe Val Ser Lys Asp Ser Arg Gly Ser Val Ala Leu Ile Ile His Asn  
 100 105 110

Val Thr Ala Glu Asp Asn Gly Ile Tyr Gln Cys Tyr Phe Gln Glu Gly  
 115 120 125

Arg Ser Cys Asn Glu Ala Ile Leu His Leu Val Val Ala Asp Gln His  
 130 135 140

Asn Pro Leu Ser Trp Ile Pro Ile Pro Gln Gly Thr Leu Ser Leu  
 145 150 155

<210> 20  
 <211> 461  
 <212> PRT  
 <213> Homo sapiens

<400> 20  
 Met Ala Leu Met Leu Ser Leu Val Leu Ser Leu Leu Lys Leu Gly Ser  
 1 5 10 15

Gly Gln Trp Gln Val Phe Gly Pro Asp Lys Pro Val Gln Ala Leu Val  
 20 25 30

Gly Glu Asp Ala Ala Phe Ser Cys Phe Leu Ser Pro Lys Thr Asn Ala  
 35 40 45

Glu Ala Met Glu Val Arg Phe Phe Arg Gly Gln Phe Ser Ser Val Val  
 50 55 60

His Leu Tyr Arg Asp Gly Lys Asp Gln Pro Phe Met Gln Met Pro Gln  
 65 70 75 80

Tyr	Gln	Gly	Arg	Thr	Lys	Leu	Val	Lys	Asp	Ser	Ile	Ala	Glu	Gly	Arg
					85			90					95		
Ile	Ser	Leu	Arg	Leu	Glu	Asn	Ile	Thr	Val	Leu	Asp	Ala	Gly	Leu	Tyr
					100			105					110		
Gly	Cys	Arg	Ile	Ser	Ser	Gln	Ser	Tyr	Tyr	Gln	Lys	Ala	Ile	Trp	Glu
			115			120					125				
Leu	Gln	Val	Ser	Ala	Leu	Gly	Ser	Val	Pro	Leu	Ile	Ser	Ile	Thr	Gly
			130			135					140				
Tyr	Val	Asp	Arg	Asp	Ile	Gln	Leu	Leu	Cys	Gln	Ser	Ser	Gly	Trp	Phe
			145			150			155					160	
Pro	Arg	Pro	Thr	Ala	Lys	Trp	Lys	Gly	Pro	Gln	Gly	Gln	Asp	Leu	Ser
			165					170					175		
Thr	Asp	Ser	Arg	Thr	Asn	Arg	Asp	Met	His	Gly	Leu	Phe	Asp	Val	Glu
			180			185					190				
Ile	Ser	Leu	Thr	Val	Gln	Glu	Asn	Ala	Gly	Ser	Ile	Ser	Cys	Ser	Met
			195			200					205				
Arg	His	Ala	His	Leu	Ser	Arg	Glu	Val	Glu	Ser	Arg	Val	Gln	Ile	Gly
			210			215			220						
Asp	Thr	Phe	Phe	Glu	Pro	Ile	Ser	Trp	His	Leu	Ala	Thr	Lys	Val	Leu
			225			230			235					240	
Gly	Ile	Leu	Cys	Cys	Gly	Leu	Phe	Phe	Gly	Ile	Val	Gly	Leu	Lys	Ile
			245			250					255				
Phe	Phe	Ser	Lys	Phe	Gln	Trp	Lys	Ile	Gln	Ala	Glu	Leu	Asp	Trp	Arg
			260			265			270						
Arg	Lys	His	Gly	Gln	Ala	Glu	Leu	Arg	Asp	Ala	Arg	Lys	His	Ala	Val
			275			280			285						
Glu	Val	Thr	Leu	Asp	Pro	Glu	Thr	Ala	His	Pro	Lys	Leu	Cys	Val	Ser
			290			295			300						
Asp	Leu	Lys	Thr	Val	Thr	His	Arg	Lys	Ala	Pro	Gln	Glu	Val	Pro	His
			305			310			315					320	
Ser	Glu	Lys	Arg	Phe	Thr	Arg	Lys	Ser	Val	Val	Ala	Ser	Gln	Ser	Phe
			325			330							335		
Gln	Ala	Gly	Lys	His	Tyr	Trp	Glu	Val	Asp	Gly	Gly	His	Asn	Lys	Arg
			340			345						350			
Trp	Arg	Val	Gly	Val	Cys	Arg	Asp	Asp	Val	Asp	Arg	Arg	Lys	Glu	Tyr
			355			360			365						
Val	Thr	Leu	Ser	Pro	Asp	His	Gly	Tyr	Trp	Val	Leu	Arg	Leu	Asn	Gly
			370			375			380						

Glu His Leu Tyr Phe Thr Leu Asn Pro Arg Phe Ile Ser Val Phe Pro  
385 390 395 400

Arg Thr Pro Pro Thr Lys Ile Gly Val Phe Leu Asp Tyr Glu Cys Gly  
405 410 415

Thr Ile Ser Phe Phe Asn Ile Asn Asp Gln Ser Leu Ile Tyr Thr Leu  
420 425 430

Thr Cys Arg Phe Glu Gly Leu Leu Arg Pro Tyr Ile Glu Tyr Pro Ser  
435 440 445

Tyr Asn Glu Gln Asn Gly Thr Pro Arg Asp Lys Gln Gln  
450 455 460

<210> 21

<211> 13

<212> PRT

<213> Homo sapiens

<400> 21

Met Ala Ser Leu Gly Gln Ile Leu Phe Trp Ser Ile Ile  
1 5 10

<210> 22

<211> 23

<212> PRT

<213> Homo sapiens

<400> 22

Leu Phe Leu Leu Leu Glu Ile Ser Thr His Leu Cys Phe Trp Lys Ser  
1 5 10 15

Leu Arg Lys Leu Glu Gly Lys

20

<210> 23

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 23

Met Ile Phe Leu Leu Leu Met Leu Ser Leu Glu Leu Gln Leu His Gln  
1 5 10 15

Ile Ala Ala Leu Phe Thr Val Thr Val Pro Lys Glu Leu Tyr Ile Ile  
20 25 30

Glu His Gly Ser Asn Val Thr Leu Glu Cys Asn Phe Asp Thr Gly Ser  
35 40 45

His Val Asn Leu Gly Ala Ile Thr Ala Ser Leu Gln Lys Val Glu Asn  
50 55 60

Asp Thr Ser Pro His Arg Glu Arg Ala Thr Leu Leu Glu Glu Gln Leu  
65 70 75 80

Pro Leu Gly Lys Ala Ser Phe Pro Xaa Leu Lys Xaa Lys  
85 90

<210> 24  
<211> 461  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (234)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (236)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 24  
Met Ala Leu Met Leu Ser Leu Val Leu Ser Leu Leu Lys Leu Gly Ser  
1 5 10 15

Gly Gln Trp Gln Val Phe Gly Pro Asp Lys Pro Val Gln Ala Leu Val  
20 25 30

Gly Glu Asp Ala Ala Phe Ser Cys Phe Leu Ser Pro Lys Thr Asn Ala  
35 40 45

Glu Ala Met Glu Val Arg Phe Phe Arg Gly Gln Phe Ser Ser Val Val  
50 55 60

His Leu Tyr Arg Asp Gly Lys Asp Gln Pro Phe Met Gln Met Pro Gln  
65 70 75 80

Tyr Gln Gly Arg Thr Lys Leu Val Lys Asp Ser Ile Ala Glu Gly Arg  
85 90 95

Ile Ser Leu Arg Leu Glu Asn Ile Thr Val Leu Asp Ala Gly Leu Tyr  
100 105 110

Gly Cys Arg Ile Ser Ser Gln Ser Tyr Tyr Gln Lys Ala Ile Trp Glu  
115 120 125

Leu Gln Val Ser Ala Leu Gly Ser Val Pro Leu Ile Ser Ile Thr Gly  
130 135 140

Tyr Val Asp Arg Asp Ile Gln Leu Leu Cys Gln Ser Ser Gly Trp Phe  
 145 150 155 160  
 Pro Arg Pro Thr Ala Lys Trp Lys Gly Pro Gln Gly Gln Asp Leu Ser  
 165 170 175  
 Thr Asp Ser Arg Thr Asn Arg Asp Met His Gly Leu Phe Asp Val Glu  
 180 185 190  
 Ile Ser Leu Thr Val Gln Glu Asn Ala Gly Ser Ile Ser Cys Ser Met  
 195 200 205  
 Arg His Ala His Leu Ser Arg Glu Val Glu Ser Arg Val Gln Ile Gly  
 210 215 220  
 Asp Thr Phe Phe Glu Pro Ile Ser Trp Xaa Leu Xaa Thr Lys Val Leu  
 225 230 235 240  
 Gly Ile Leu Cys Cys Gly Leu Phe Phe Gly Ile Val Gly Leu Lys Ile  
 245 250 255  
 Phe Phe Ser Lys Phe Gln Trp Lys Ile Gln Ala Glu Leu Asp Trp Arg  
 260 265 270  
 Arg Lys His Gly Gln Ala Glu Leu Arg Asp Ala Arg Lys His Ala Val  
 275 280 285  
 Glu Val Thr Leu Asp Pro Glu Thr Ala His Pro Lys Leu Cys Val Ser  
 290 295 300  
 Asp Leu Lys Thr Val Thr His Arg Lys Ala Pro Gln Glu Val Pro His  
 305 310 315 320  
 Ser Glu Lys Arg Phe Thr Arg Lys Ser Val Val Ala Ser Gln Ser Phe  
 325 330 335  
 Gln Ala Gly Lys His Tyr Trp Glu Val Asp Gly Gly His Asn Lys Arg  
 340 345 350  
 Trp Arg Val Gly Val Cys Arg Asp Asp Val Asp Arg Arg Lys Glu Tyr  
 355 360 365  
 Val Thr Leu Ser Pro Asp His Gly Tyr Trp Val Leu Arg Leu Asn Gly  
 370 375 380  
 Glu His Leu Tyr Phe Thr Leu Asn Pro Arg Phe Ile Ser Val Phe Pro  
 385 390 395 400  
 Arg Thr Pro Pro Thr Lys Ile Gly Val Phe Leu Asp Tyr Glu Cys Gly  
 405 410 415  
 Thr Ile Ser Phe Phe Asn Ile Asn Asp Gln Ser Leu Ile Tyr Thr Leu  
 420 425 430  
 Thr Cys Arg Phe Glu Gly Leu Leu Arg Pro Tyr Ile Glu Tyr Pro Ser  
 435 440 445  
 Tyr Asn Glu Gln Asn Gly Thr Pro Arg Asp Lys Gln Gln  
 450 455 460

<210> 25  
 <211> 402  
 <212> PRT  
 <213> Homo sapiens

<400> 25  
 Met Glu Pro Ala Ala Ala Leu His Phe Ser Arg Pro Ala Ser Leu Leu  
 1 5 10 15

Leu Leu Leu Ser Leu Cys Ala Leu Val Ser Ala Gln Phe Thr Val Val  
 20 25 30

Gly Pro Ala Asn Pro Ile Leu Ala Met Val Gly Glu Asn Thr Thr Leu  
 35 40 45

Arg Cys His Leu Ser Pro Glu Lys Asn Ala Glu Asp Met Glu Val Arg  
 50 55 60

Trp Phe Arg Ser Gln Phe Ser Pro Ala Val Phe Val Tyr Lys Gly Gly  
 65 70 75 80

Arg Glu Arg Thr Glu Glu Gln Met Glu Glu Tyr Arg Gly Arg Ile Thr  
 85 90 95

Phe Val Ser Lys Asp Ile Asn Arg Gly Ser Val Ala Leu Val Ile His  
 100 105 110

Asn Val Thr Ala Gln Glu Asn Gly Ile Tyr Arg Cys Tyr Phe Gln Glu  
 115 120 125

Gly Arg Ser Tyr Asp Glu Ala Ile Leu Arg Leu Val Val Ala Gly Leu  
 130 135 140

Gly Ser Lys Pro Leu Ile Glu Ile Lys Ala Gln Glu Asp Gly Ser Ile  
 145 150 155 160

Trp Leu Glu Cys Ile Ser Gly Gly Trp Tyr Pro Glu Pro Leu Thr Val  
 165 170 175

Trp Arg Asp Pro Tyr Gly Glu Val Val Pro Ala Leu Lys Glu Val Ser  
 180 185 190

Ile Ala Asp Ala Asp Gly Leu Phe Met Val Thr Thr Ala Val Ile Ile  
 195 200 205

Arg Asp Lys Tyr Val Arg Asn Val Ser Cys Ser Val Asn Asn Thr Leu  
 210 215 220

Leu Gly Gln Glu Lys Glu Thr Val Ile Phe Ile Pro Glu Ser Phe Met  
 225 230 235 240

Pro Ser Ala Ser Pro Trp Met Val Ala Leu Ala Val Ile Leu Thr Ala  
 245 250 255

Ser Pro Trp Met Val Ser Met Thr Val Ile Leu Ala Val Phe Ile Ile  
 260 265 270

Phe Met Ala Val Ser Ile Cys Cys Ile Lys Lys Leu Gln Arg Glu Lys  
 275 280 285  
 Lys Ile Leu Ser Gly Glu Lys Lys Val Glu Gln Glu Glu Lys Glu Ile  
 290 295 300  
 Ala Gln Gln Leu Gln Glu Glu Leu Arg Trp Arg Arg Thr Phe Leu His  
 305 310 315 320  
 Ala Ala Asp Val Val Leu Asp Pro Asp Thr Ala His Pro Glu Leu Phe  
 325 330 335  
 Leu Ser Glu Asp Arg Arg Ser Val Arg Arg Gly Pro Tyr Arg Gln Arg  
 340 345 350  
 Val Pro Asp Asn Pro Glu Arg Phe Asp Ser Gln Pro Cys Val Leu Gly  
 355 360 365  
 Trp Glu Ser Phe Ala Ser Gly Lys His Tyr Arg Gly Asn Phe Thr Glu  
 370 375 380  
 Trp Gly Pro Thr Arg Ala Tyr Arg Ile Asn Ser Leu Asp Ser Gln Pro  
 385 390 395 400  
 Cys Arg  
  
 <210> 26  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 26  
 Ser Lys Ala Ser Leu Cys Val Ser Ser Phe Phe Ala Ile Ser Trp Ala  
 1 5 10 15  
 Leu Leu Pro Leu  
 20  
  
 <210> 27  
 <211> 255  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 27  
 Met Ala Ser Leu Gly Gln Ile Leu Phe Trp Ser Ile Ile Ser Ile Ile  
 1 5 10 15  
 Ile Ile Leu Ala Gly Ala Ile Ala Leu Ile Ile Gly Phe Gly Ile Ser  
 20 25 30  
 Gly Arg His Ser Ile Thr Val Thr Thr Val Ala Ser Ala Gly Asn Ile  
 35 40 45  
 Gly Glu Asp Gly Ile Leu Ser Cys Thr Phe Glu Pro Asp Ile Lys Leu  
 50 55 60

Ser Asp Ile Val Ile Gln Trp Leu Lys Glu Gly Val Leu Gly Leu Val  
 65 70 75 80  
 His Glu Phe Lys Glu Gly Lys Asp Glu Leu Ser Glu Gln Asp Glu Met  
 85 90 95  
 Phe Arg Gly Arg Thr Ala Val Phe Ala Asp Gln Val Ile Val Gly Asn  
 100 105 110  
 Ala Ser Leu Arg Leu Lys Asn Val Gln Leu Thr Asp Ala Gly Thr Tyr  
 115 120 125  
 Lys Cys Tyr Ile Ile Thr Ser Lys Gly Lys Asn Ala Asn Leu Glu  
 130 135 140  
 Tyr Lys Thr Gly Ala Phe Ser Met Pro Glu Val Asn Val Asp Tyr Asn  
 145 150 155 160  
 Ala Ser Ser Glu Thr Leu Arg Cys Glu Ala Pro Arg Trp Phe Pro Gln  
 165 170 175  
 Pro Thr Val Val Trp Ala Ser Gln Val Asp Gln Gly Ala Asn Phe Ser  
 180 185 190  
 Glu Val Ser Asn Thr Ser Phe Glu Leu Asn Ser Glu Asn Val Thr Met  
 195 200 205  
 Lys Val Val Ser Val Leu Tyr Asn Val Thr Ile Asn Asn Thr Tyr Ser  
 210 215 220  
 Cys Met Ile Glu Asn Asp Ile Ala Lys Ala Thr Gly Asp Ile Lys Val  
 225 230 235 240  
 Thr Glu Ser Glu Ile Lys Arg Arg Ser His Leu Gln Leu Leu Asn  
 245 250 255  
 .  
 .  
 .  
 <210> 28  
 <211> 231  
 <212> PRT  
 <213> Homo sapiens  
 .  
 <400> 28  
 Leu Ile Ile Gly Phe Gly Ile Ser Gly Arg His Ser Ile Thr Val Thr  
 1 5 10 15  
 Thr Val Ala Ser Ala Gly Asn Ile Gly Glu Asp Gly Ile Leu Ser Cys  
 20 25 30  
 Thr Phe Glu Pro Asp Ile Lys Leu Ser Asp Ile Val Ile Gln Trp Leu  
 35 40 45  
 Lys Glu Gly Val Leu Gly Leu Val His Glu Phe Lys Glu Gly Lys Asp  
 50 55 60  
 Glu Leu Ser Glu Gln Asp Glu Met Phe Arg Gly Arg Thr Ala Val Phe  
 65 70 75 80

Ala	Asp	Gln	Val	Ile	Val	Gly	Asn	Ala	Ser	Leu	Arg	Leu	Lys	Asn	Val
85								90					95		
Gln	Leu	Thr	Asp	Ala	Gly	Thr	Tyr	Lys	Cys	Tyr	Ile	Ile	Thr	Ser	Lys
100							105					110			
Gly	Lys	Gly	Asn	Ala	Asn	Leu	Glu	Tyr	Lys	Thr	Gly	Ala	Phe	Ser	Met
115						120					125				
Pro	Glu	Val	Asn	Val	Asp	Tyr	Asn	Ala	Ser	Ser	Glu	Thr	Leu	Arg	Cys
130					135					140					
Glu	Ala	Pro	Arg	Trp	Phe	Pro	Gln	Pro	Thr	Val	Val	Trp	Ala	Ser	Gln
145						150			155					160	
Val	Asp	Gln	Gly	Ala	Asn	Phe	Ser	Glu	Val	Ser	Asn	Thr	Ser	Phe	Glu
					165			170					175		
Leu	Asn	Ser	Glu	Asn	Val	Thr	Met	Lys	Val	Val	Ser	Val	Leu	Tyr	Asn
					180				185				190		
Val	Thr	Ile	Asn	Asn	Thr	Tyr	Ser	Cys	Met	Ile	Glu	Asn	Asp	Ile	Ala
					195			200					205		
Lys	Ala	Thr	Gly	Asp	Ile	Lys	Val	Thr	Glu	Ser	Glu	Ile	Lys	Arg	Arg
					210			215					220		
Ser	His	Leu	Gln	Leu	Leu	Asn									
					225			230							
<210> 29															
<211> 24															
<212> PRT															
<213> Homo sapiens															
<400> 29															
Met	Ala	Ser	Leu	Gly	Gln	Ile	Leu	Phe	Trp	Ser	Ile	Ile	Ser	Ile	Ile
1					5				10				15		
Ile	Ile	Leu	Ala	Gly	Ala	Ile	Ile								
					20										
<210> 30															
<211> 30															
<212> PRT															
<213> Homo sapiens															
<400> 30															
Pro	Thr	Trp	Leu	Leu	His	Ile	Phe	Ile	Pro	Ser	Cys	Ile	Ile	Ala	Phe
1					5			10					15		
Ile	Phe	Ile	Ala	Thr	Val	Ile	Ala	Leu	Arg	Lys	Gln	Leu	Cys		
					20			25				30			

<210> 31  
 <211> 218  
 <212> PRT  
 <213> Homo sapiens

<400> 31  
 Met Ile Phe Leu Leu Leu Met Leu Ser Leu Glu Leu Gln Leu His Gln  
 1 5 10 15

Ile Ala Ala Leu Phe Thr Val Thr Val Pro Lys Glu Leu Tyr Ile Ile  
 20 25 30

Glu His Gly Ser Asn Val Thr Leu Glu Cys Asn Phe Asp Thr Gly Ser  
 35 40 45

His Val Asn Leu Gly Ala Ile Thr Ala Ser Leu Gln Lys Val Glu Asn  
 50 55 60

Asp Thr Ser Pro His Arg Glu Arg Ala Thr Leu Leu Glu Glu Gln Leu  
 65 70 75 80

Pro Leu Gly Lys Ala Ser Phe His Ile Pro Gln Val Gln Val Arg Asp  
 85 90 95

Glu Gly Gln Tyr Gln Cys Ile Ile Tyr Gly Val Ala Trp Asp Tyr  
 100 105 110

Lys Tyr Leu Thr Leu Lys Val Lys Ala Ser Tyr Arg Lys Ile Asn Thr  
 115 120 125

His Ile Leu Lys Val Pro Glu Thr Asp Glu Val Glu Leu Thr Cys Gln  
 130 135 140

Ala Thr Gly Tyr Pro Leu Ala Glu Val Ser Trp Pro Asn Val Ser Val  
 145 150 155 160

Pro Ala Asn Thr Ser His Ser Arg Thr Pro Glu Gly Leu Tyr Gln Val  
 165 170 175

Thr Ser Val Leu Arg Leu Lys Pro Pro Pro Gly Arg Asn Phe Ser Cys  
 180 185 190

Val Phe Trp Asn Thr His Val Arg Glu Leu Thr Leu Ala Ser Ile Asp  
 195 200 205

Leu Gln Ser Gln Met Glu Pro Arg Thr His  
 210 215

<210> 32  
 <211> 199  
 <212> PRT  
 <213> Homo sapiens

<400> 32  
 Leu Phe Thr Val Thr Val Pro Lys Glu Leu Tyr Ile Ile Glu His Gly  
 1 5 10 15

Ser Asn Val Thr Leu Glu Cys Asn Phe Asp Thr Gly Ser His Val Asn

20	25	30
Leu Gly Ala Ile Thr Ala Ser Leu Gln Lys Val Glu Asn Asp Thr Ser		
35	40	45
Pro His Arg Glu Arg Ala Thr Leu Leu Glu Glu Gln Leu Pro Leu Gly		
50	55	60
Lys Ala Ser Phe His Ile Pro Gln Val Gln Val Arg Asp Glu Gly Gln		
65	70	75
Tyr Gln Cys Ile Ile Tyr Gly Val Ala Trp Asp Tyr Lys Tyr Leu		
85	90	95
Thr Leu Lys Val Lys Ala Ser Tyr Arg Lys Ile Asn Thr His Ile Leu		
100	105	110
Lys Val Pro Glu Thr Asp Glu Val Glu Leu Thr Cys Gln Ala Thr Gly		
115	120	125
Tyr Pro Leu Ala Glu Val Ser Trp Pro Asn Val Ser Val Pro Ala Asn		
130	135	140
Thr Ser His Ser Arg Thr Pro Glu Gly Leu Tyr Gln Val Thr Ser Val		
145	150	155
160		
Leu Arg Leu Lys Pro Pro Pro Gly Arg Asn Phe Ser Cys Val Phe Trp		
165	170	175
Asn Thr His Val Arg Glu Leu Thr Leu Ala Ser Ile Asp Leu Gln Ser		
180	185	190
Gln Met Glu Pro Arg Thr His		
195		
<210> 33		
<211> 19		
<212> PRT		
<213> Homo sapiens		
<400> 33		
Met Ile Phe Leu Leu Leu Met Leu Ser Leu Glu Leu Gln Leu His Gln		
1	5	10
15		
Ile Ala Ala		
<210> 34		
<211> 93		
<212> PRT		
<213> Homo sapiens		
<400> 34		
Glu Leu Tyr Ile Ile Glu His Gly Ser Asn Val Thr Leu Glu Cys Asn		
1	5	10
15		
Phe Asp Thr Gly Ser His Val Asn Leu Gly Ala Ile Thr Ala Ser Leu		

20

25

30

Gln Lys Val Glu Asn Asp Thr Ser Pro His Arg Glu Arg Ala Thr Leu  
35 40 45

Leu Glu Glu Gln Leu Pro Leu Gly Lys Ala Ser Phe His Ile Pro Gln  
50 55 60

Val Gln Val Arg Asp Glu Gly Gln Tyr Gln Cys Ile Ile Ile Tyr Gly  
65 70 75 80

Val Ala Trp Asp Tyr Lys Tyr Leu Thr Leu Lys Val Lys  
85 90

<210> 35

<211> 94

<212> PRT

<213> Homo sapiens

<400> 35

Ser Tyr Arg Lys Ile Asn Thr His Ile Leu Lys Val Pro Glu Thr Asp  
1 5 10 15

Glu Val Glu Leu Thr Cys Gln Ala Thr Gly Tyr Pro Leu Ala Glu Val  
20 25 30

Ser Trp Pro Asn Val Ser Val Pro Ala Asn Thr Ser His Ser Arg Thr  
35 40 45

Pro Glu Gly Leu Tyr Gln Val Thr Ser Val Leu Arg Leu Lys Pro Pro  
50 55 60

Pro Gly Arg Asn Phe Ser Cys Val Phe Trp Asn Thr His Val Arg Glu  
65 70 75 80

Leu Thr Leu Ala Ser Ile Asp Leu Gln Ser Gln Met Glu Pro  
85 90

<210> 36

<211> 301

<212> PRT

<213> Homo sapiens

<400> 36

Gln Trp Gln Val Phe Gly Pro Asp Lys Pro Val Gln Ala Leu Val Gly  
1 5 10 15

Glu Asp Ala Ala Phe Ser Cys Phe Leu Ser Pro Lys Thr Asn Ala Glu  
20 25 30

Ala Met Glu Val Arg Phe Phe Arg Gly Gln Phe Ser Ser Val Val His  
35 40 45

Leu Tyr Arg Asp Gly Lys Asp Gln Pro Phe Met Gln Met Pro Gln Tyr  
50 55 60

Gln Gly Arg Thr Lys Leu Val Lys Asp Ser Ile Ala Glu Gly Arg Ile  
 65 70 75 80  
 Ser Leu Arg Leu Glu Asn Ile Thr Val Leu Asp Ala Gly Leu Tyr Gly  
 85 90 95  
 Cys Arg Ile Ser Ser Gln Ser Tyr Tyr Gln Lys Ala Ile Trp Glu Leu  
 100 105 110  
 Gln Val Ser Ala Leu Gly Ser Val Pro Leu Ile Ser Ile Ala Gly Tyr  
 115 120 125  
 Val Asp Arg Asp Ile Gln Leu Leu Cys Gln Ser Ser Gly Trp Phe Pro  
 130 135 140  
 Arg Pro Thr Ala Lys Trp Lys Gly Pro Gln Gly Gln Asp Leu Ser Thr  
 145 150 155 160  
 Asp Ser Arg Thr Asn Arg Asp Met His Gly Leu Phe Asp Val Glu Ile  
 165 170 175  
 Ser Leu Thr Val Gln Glu Asn Ala Gly Ser Ile Ser Cys Ser Met Arg  
 180 185 190  
 His Ala His Leu Ser Arg Glu Val Glu Ser Arg Val Gln Ile Gly Asp  
 195 200 205  
 Trp Arg Arg Lys His Gly Gln Ala Gly Lys Arg Lys Tyr Ser Ser Ser  
 210 215 220  
 His Ile Tyr Asp Ser Phe Pro Ser Leu Ser Phe Met Asp Phe Tyr Ile  
 225 230 235 240  
 Leu Arg Pro Val Gly Pro Cys Arg Ala Lys Leu Val Met Gly Thr Leu  
 245 250 255  
 Lys Leu Gln Ile Leu Gly Glu Val His Phe Val Glu Lys Pro His Ser  
 260 265 270  
 Leu Leu Gln Ile Ser Gly Gly Ser Thr Thr Leu Lys Lys Gly Pro Asn  
 275 280 285  
 Pro Trp Ser Phe Pro Ser Pro Cys Ala Leu Phe Pro Thr  
 290 295 300

<210> 37  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 37  
 Met Ala Leu Met Leu Ser Leu Val Leu Ser Leu Leu Lys Leu Gly Ser  
 1 5 10 15

Gly

<210> 38  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 38  
Thr Ala Ser Pro Trp Met Val Ser Met Thr Val Ile Leu Ala Val Phe  
1 5 10 15  
Ile Ile Phe Met Ala Val Ser Ile Cys Cys  
20 25

<210> 39  
<211> 254  
<212> PRT  
<213> Homo sapiens

<400> 39  
Met Glu Pro Ala Ala Ala Leu His Phe Ser Arg Pro Ala Ser Leu Leu  
1 5 10 15  
Leu Leu Leu Ser Leu Cys Ala Leu Val Ser Ala Gln Phe Thr Val Val  
20 25 30  
Gly Pro Ala Asn Pro Ile Leu Ala Met Val Gly Glu Asn Thr Thr Leu  
35 40 45  
Arg Cys His Leu Ser Pro Glu Lys Asn Ala Glu Asp Met Glu Val Arg  
50 55 60  
Trp Phe Arg Ser Gln Phe Ser Pro Ala Val Phe Val Tyr Lys Gly Gly  
65 70 75 80  
Arg Glu Arg Thr Glu Glu Gln Met Glu Glu Tyr Arg Gly Arg Ile Thr  
85 90 95  
Phe Val Ser Lys Asp Ile Asn Arg Gly Ser Val Ala Leu Val Ile His  
100 105 110  
Asn Val Thr Ala Gln Glu Asn Gly Ile Tyr Arg Cys Tyr Phe Gln Glu  
115 120 125  
Gly Arg Ser Tyr Asp Glu Ala Ile Leu Arg Leu Val Val Ala Gly Leu  
130 135 140  
Gly Ser Lys Pro Leu Ile Glu Ile Lys Ala Gln Glu Asp Gly Ser Ile  
145 150 155 160  
Trp Leu Glu Cys Ile Ser Gly Gly Trp Tyr Pro Glu Pro Leu Thr Val  
165 170 175  
Trp Arg Asp Pro Tyr Gly Glu Val Val Pro Ala Leu Lys Glu Val Ser  
180 185 190  
Ile Ala Asp Ala Asp Gly Leu Phe Met Val Thr Thr Ala Val Ile Ile  
195 200 205

Arg Asp Lys Tyr Val Arg Asn Val Ser Cys Ser Val Asn Asn Thr Leu  
210 215 220

Leu Gly Gln Glu Lys Glu Thr Val Ile Phe Ile Pro Glu Ser Phe Met  
225 230 235 240

Pro Ser Ala Ser Pro Trp Met Val Ala Leu Ala Val Ile Leu  
245 250

<210> 40

<211> 227

<212> PRT

<213> Homo sapiens

<400> 40

Gln Phe Thr Val Val Gly Pro Ala Asn Pro Ile Leu Ala Met Val Gly  
1 5 10 15

Glu Asn Thr Thr Leu Arg Cys His Leu Ser Pro Glu Lys Asn Ala Glu  
20 25 30

Asp Met Glu Val Arg Trp Phe Arg Ser Gln Phe Ser Pro Ala Val Phe  
35 40 45

Val Tyr Lys Gly Gly Arg Glu Arg Thr Glu Glu Gln Met Glu Glu Tyr  
50 55 60

Arg Gly Arg Ile Thr Phe Val Ser Lys Asp Ile Asn Arg Gly Ser Val  
65 70 75 80

Ala Leu Val Ile His Asn Val Thr Ala Gln Glu Asn Gly Ile Tyr Arg  
85 90 95

Cys Tyr Phe Gln Glu Gly Arg Ser Tyr Asp Glu Ala Ile Leu Arg Leu  
100 105 110

Val Val Ala Gly Leu Gly Ser Lys Pro Leu Ile Glu Ile Lys Ala Gln  
115 120 125

Glu Asp Gly Ser Ile Trp Leu Glu Cys Ile Ser Gly Gly Trp Tyr Pro  
130 135 140

Glu Pro Leu Thr Val Trp Arg Asp Pro Tyr Gly Glu Val Val Pro Ala  
145 150 155 160

Leu Lys Glu Val Ser Ile Ala Asp Ala Asp Gly Leu Phe Met Val Thr  
165 170 175

Thr Ala Val Ile Ile Arg Asp Lys Tyr Val Arg Asn Val Ser Cys Ser  
180 185 190

Val Asn Asn Thr Leu Leu Gly Gln Glu Lys Glu Thr Val Ile Phe Ile  
195 200 205

Pro Glu Ser Phe Met Pro Ser Ala Ser Pro Trp Met Val Ala Leu Ala  
210 215 220

Val Ile Leu  
225

<210> 41  
<211> 27  
<212> PRT  
<213> Homo sapiens

<400> 41  
Met Glu Pro Ala Ala Ala Leu His Phe Ser Arg Pro Ala Ser Leu Leu  
1 5 10 15  
Leu Leu Leu Ser Leu Cys Ala Leu Val Ser Ala  
20 25

<210> 42  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 42  
Gly Pro Thr Gly Ala Arg Leu Thr Leu Val Leu Ala Leu Thr Val Ile  
1 5 10 15  
Leu Glu Leu Thr  
20

<210> 43  
<211> 394  
<212> PRT  
<213> Homo sapiens

<400> 43  
Met Arg Glu Ile Val Trp Tyr Arg Val Thr Asp Gly Gly Thr Ile Lys  
1 5 10 15  
Gln Lys Ile Phe Thr Phe Asp Ala Met Phe Ser Thr Asn Tyr Ser His  
20 25 30

Met Glu Asn Tyr Arg Lys Arg Glu Asp Leu Val Tyr Gln Ser Thr Val  
35 40 45

Arg Leu Pro Glu Val Arg Ile Ser Asp Asn Gly Pro Tyr Glu Cys His  
50 55 60

Val Gly Ile Tyr Asp Arg Ala Thr Arg Glu Lys Val Val Leu Ala Ser  
65 70 75 80

Gly Asn Ile Phe Leu Asn Val Met Ala Pro Pro Thr Ser Ile Glu Val  
85 90 95

Val Ala Ala Asp Thr Pro Ala Pro Phe Ser Arg Tyr Gln Ala Gln Asn  
100 105 110

Phe Thr Leu Val Cys Ile Val Ser Gly Gly Lys Pro Ala Pro Met Val  
115 120 125

Tyr Phe Lys Arg Asp Gly Glu Pro Ile Asp Ala Val Pro Leu Ser Glu  
130 135 140

Pro Pro Ala Ala Ser Ser Gly Pro Leu Gln Asp Ser Arg Pro Phe Arg  
145 150 155 160

Ser Leu Leu His Arg Asp Leu Asp Asp Thr Lys Met Gln Lys Ser Leu  
165 170 175

Ser Leu Leu Asp Ala Glu Asn Arg Gly Gly Arg Pro Tyr Thr Glu Arg  
180 185 190

Pro Ser Arg Gly Leu Thr Pro Asp Pro Asn Ile Leu Leu Gln Pro Thr  
195 200 205

Thr Glu Asn Ile Pro Glu Thr Val Val Ser Arg Glu Phe Pro Arg Trp  
210 215 220

Val His Ser Ala Glu Pro Thr Tyr Phe Leu Arg His Ser Arg Thr Pro  
225 230 235 240

Ser Ser Asp Gly Thr Val Glu Val Arg Ala Leu Leu Thr Trp Thr Leu  
245 250 255

Asn Pro Gln Ile Asp Asn Glu Ala Leu Phe Ser Cys Glu Val Lys His  
260 265 270

Pro Ala Leu Ser Met Pro Met Gln Ala Glu Val Thr Leu Val Ala Pro  
275 280 285

Lys Gly Pro Lys Ile Val Met Thr Pro Ser Arg Ala Arg Val Gly Asp  
290 295 300

Thr Val Arg Ile Leu Val His Gly Phe Gln Asn Glu Val Phe Pro Glu  
305 310 315 320

Pro Met Phe Thr Trp Thr Arg Val Gly Ser Arg Leu Leu Asp Gly Ser  
325 330 335

Ala Glu Phe Asp Gly Lys Glu Leu Val Leu Glu Arg Val Pro Ala Glu  
340 345 350

Leu Asn Gly Ser Met Tyr Arg Cys Thr Ala Gln Asn Pro Leu Gly Ser  
355 360 365

Thr Asp Thr His Thr Arg Leu Ile Val Phe Glu Asn Pro Asn Ile Pro  
370 375 380

Arg Gly Thr Glu Asp Ser Asn Gly Ser Ile  
385 390

<210> 44  
<211> 132  
<212> PRT  
<213> Homo sapiens

<400> 44

Gln Val Thr Val Val Gly Pro Thr Asp Pro Ile Leu Ala Met Val Gly  
1 5 10 15

Glu Asn Thr Thr Leu Arg Cys Cys Leu Ser Pro Glu Glu Asn Ala Glu  
20 25 30

Asp Met Glu Val Arg Trp Phe Gln Ser Gln Phe Ser Pro Ala Val Phe  
35 40 45

Val Tyr Lys Gly Gly Arg Glu Arg Thr Glu Glu Gln Lys Glu Glu Tyr  
50 55 60

Arg Gly Arg Thr Thr Phe Val Ser Lys Asp Ser Arg Gly Ser Val Ala  
65 70 75 80

Leu Ile Ile His Asn Val Thr Ala Glu Asp Asn Gly Ile Tyr Gln Cys  
85 90 95

Tyr Phe Gln Glu Gly Arg Ser Cys Asn Glu Ala Ile Leu His Leu Val  
100 105 110

Val Ala Asp Gln His Asn Pro Leu Ser Trp Ile Pro Ile Pro Gln Gly  
115 120 125

Thr Leu Ser Leu  
130

<210> 45

<211> 27

<212> PRT

<213> Homo sapiens

<400> 45

Met Glu Pro Ala Ala Ala Leu His Phe Ser Arg Pro Ala Ser Leu Leu  
1 5 10 15

Leu Leu Leu Ser Leu Cys Ala Leu Val Ser Ala  
20 25

<210> 46

<211> 13

<212> PRT

<213> Homo sapiens

<400> 46

Leu Gly Ile Leu Cys Cys Gly Leu Phe Phe Gly Ile Val  
1 5 10

<210> 47

<211> 17

<212> PRT

<213> Homo sapiens

<400> 47

Met Ala Leu Met Leu Ser Leu Val Leu Ser Leu Leu Lys Leu Gly Ser  
1 5 10 15

Gly

<210> 48

<211> 239

<212> PRT

<213> Homo sapiens

<400> 48

Met Ala Leu Met Leu Ser Leu Val Leu Ser Leu Leu Lys Leu Gly Ser  
1 5 10 15

Gly Gln Trp Gln Val Phe Gly Pro Asp Lys Pro Val Gln Ala Leu Val  
20 25 30

Gly Glu Asp Ala Ala Phe Ser Cys Phe Leu Ser Pro Lys Thr Asn Ala  
35 40 45

Glu Ala Met Glu Val Arg Phe Phe Arg Gly Gln Phe Ser Ser Val Val  
50 55 60

His Leu Tyr Arg Asp Gly Lys Asp Gln Pro Phe Met Gln Met Pro Gln  
65 70 75 80

Tyr Gln Gly Arg Thr Lys Leu Val Lys Asp Ser Ile Ala Glu Gly Arg  
85 90 95

Ile Ser Leu Arg Leu Glu Asn Ile Thr Val Leu Asp Ala Gly Leu Tyr  
100 105 110

Gly Cys Arg Ile Ser Ser Gln Ser Tyr Tyr Gln Lys Ala Ile Trp Glu  
115 120 125

Leu Gln Val Ser Ala Leu Gly Ser Val Pro Leu Ile Ser Ile Thr Gly  
130 135 140

Tyr Val Asp Arg Asp Ile Gln Leu Leu Cys Gln Ser Ser Gly Trp Phe  
145 150 155 160

Pro Arg Pro Thr Ala Lys Trp Lys Gly Pro Gln Gly Gln Asp Leu Ser  
165 170 175

Thr Asp Ser Arg Thr Asn Arg Asp Met His Gly Leu Phe Asp Val Glu  
180 185 190

Ile Ser Leu Thr Val Gln Glu Asn Ala Gly Ser Ile Ser Cys Ser Met  
195 200 205

Arg His Ala His Leu Ser Arg Glu Val Glu Ser Arg Val Gln Ile Gly  
210 215 220

Asp Thr Phe Phe Glu Pro Ile Ser Trp His Leu Ala Thr Lys Val  
225 230 235

<210> 49

<211> 222

<212> PRT

<213> Homo sapiens

<400> 49

Gln Trp Gln Val Phe Gly Pro Asp Lys Pro Val Gln Ala Leu Val Gly  
1 5 10 15

Glu Asp Ala Ala Phe Ser Cys Phe Leu Ser Pro Lys Thr Asn Ala Glu  
20 25 30

Ala Met Glu Val Arg Phe Phe Arg Gly Gln Phe Ser Ser Val Val His  
35 40 45

Leu Tyr Arg Asp Gly Lys Asp Gln Pro Phe Met Gln Met Pro Gln Tyr  
50 55 60

Gln Gly Arg Thr Lys Leu Val Lys Asp Ser Ile Ala Glu Gly Arg Ile  
65 70 75 80

Ser Leu Arg Leu Glu Asn Ile Thr Val Leu Asp Ala Gly Leu Tyr Gly  
85 90 95

Cys Arg Ile Ser Ser Gln Ser Tyr Tyr Gln Lys Ala Ile Trp Glu Leu  
100 105 110

Gln Val Ser Ala Leu Gly Ser Val Pro Leu Ile Ser Ile Thr Gly Tyr  
115 120 125

Val Asp Arg Asp Ile Gln Leu Cys Gln Ser Ser Gly Trp Phe Pro  
130 135 140

Arg Pro Thr Ala Lys Trp Lys Gly Pro Gln Gly Gln Asp Leu Ser Thr  
145 150 155 160

Asp Ser Arg Thr Asn Arg Asp Met His Gly Leu Phe Asp Val Glu Ile  
165 170 175

Ser Leu Thr Val Gln Glu Asn Ala Gly Ser Ile Ser Cys Ser Met Arg  
180 185 190

His Ala His Leu Ser Arg Glu Val Glu Ser Arg Val Gln Ile Gly Asp  
195 200 205

Thr Phe Phe Glu Pro Ile Ser Trp His Leu Ala Thr Lys Val  
210 215 220